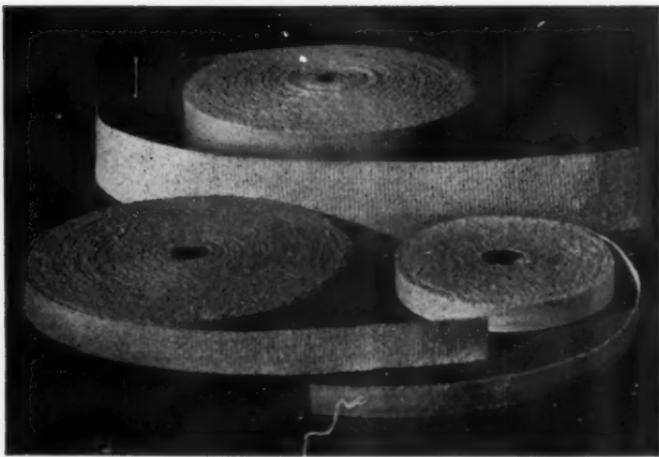


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SEPTEMBER 1956



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# "ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED  
MONTHLY SINCE THAT DATE  
BY SECRETARIAL SERVICE  
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S. E. COR. BROAD & CHESTNUT STS.  
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E. E. COX, Editor

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## THE DISTRIBUTION OF CROCIDOLITE ASBESTOS

*By W. E. Sinclair, M.I.M.M.*

It has been suggested that as a result of some adjustment and consolidation in the industry following the setback in 1953, a more favorable change has taken place in overseas markets. Although asbestos prices continue at low levels business has been maintained on a more even course with a firm and increasing demand for good quality crocidolite.

Considering the growing importance of asbestos production in the country's economy, this position opens up several avenues of interest, not least of which is the extent of local reserves and world production of the mineral. Local resources although apparently extensive, are influenced in a great measure by the price factor. Rising costs are not likely to be absorbed by low price levels, and the causes of high production costs, higher wage scales and cost of supplies, plus such extraneous charges as transport (rail) and silicosis levy, are assuming proportions nullifying the usual efforts of producers to reduce unit operational costs. It is most unfortunate, in these circumstances, that the only solution is selective mining and the writing off of marginal ore to an unpayable category with a resulting depletion of ore reserves.

What might be considered as a consoling factor is that the Cape crocidolite field, extending in a long belt from Prieska to Kuruman for nearly 250 miles, bears in its asbestos horizons a very large potential of high quality fibre. As already suggested, however, this latent tonnage is measured by the selling value of the product contained in the ore. The economic aspect, therefore, is the deciding factor as to the fibre available. Meantime, it is estimated in a survey (*Asbestos, Its Origin, Production and Utilization*. By the Author, Mining Publications, London, 1955) of the Cape and Transvaal fields that there exists a possible latent supply of one million tons. This is based on known exposures and allows for the somewhat erratic and unpredictable developments of the fibre reefs.

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mankind since 1873*



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Allowing for the average consumption of crocidolite today, this indicates a probable "life" of twenty years of "Blue" asbestos production in South Africa, providing the rising cost structure does not upset present economic conditions. With a likely step-up in production to meet the increasing demand it is evident that an intensive development program will be necessary to establish a reserve of fibre to maintain or increase the future life of the crocidolite fields in this country.

There are other sources of supply of crocidolite that precludes South Africa from a world monopoly in this sphere. The most important of these is the well-known Australian field, where generally there are strong indications of better exposures and therefore richer deposits, in terms of percentage payability, compared with many of the local propositions in the Transvaal or the Cape.

This advantage, however, is offset seriously by the remote situation of the field and the excessively dry climatic conditions. The initial development and construction of mills and living quarters to bring these mines to production, represents an enormous capital outlay. Similarly, mainly because of high transport charges, working costs tend to make the undertaking unpayable. Production costs are generally as high as the average selling prices of the fibre on world markets. Output from this field in the past ten years, when serious production first started, has gradually built up to about 5,000 tons and promises to increase steadily.

Because of the tremendous reserve of high quality crocidolite in the Western Australian deposits (the estimated resources are said to be double those in South Africa) there is little doubt that the present high cost of production will be reduced as the scale of operations increases. A bigger local demand will automatically take place as "Blue" fibre is used instead of other amphibole varieties. At present "Blue" output is only 10 per cent of all Australian asbestos production.

The indicated growing world demand for good quality crocidolite will, undoubtedly, stimulate a larger measure of production from this field, another step in lowering unit costs. In the meantime, however, producers have ap-

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JAPAN ..... S. SAITO & COMPANY, 7th Floor, Marunouchi Building,  
TOKYO

BELGIUM ..... JOS IDE & FILS, 23, rue Mareyde,  
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GERMANY ..... ERNST WERNER, Import von Rohasbest,  
Katherinenstrasse 30, "Edmundhaus,"  
HAMBURG II.

proached the Government for tariff protection or some other form of assistance as a means to increase the domestic market for the fibre. As stated above this will also lead to a higher turnover and thereby lower unit production costs.

Despite the existing doubtful economic position, it is reported that 5,000 tons of crocidolite from current production and 3,000 tons from stocks were sold on world markets last year. This was in direct competition with South African fibre. The future outlook indicates a guaranteed export order for 7,000 tons out of an estimated production of 8,000 tons in 1956. The selling price will average £100 per ton. As an additional boost to the "Blue" production, the establishment of a substantial asbestos-cement industry in the country is envisaged.

The next important producer of crocidolite (in terms of quality rather than tonnage) is Bolivia, in South America. The Bolivian asbestos field is located at Chochabamba, where the asbestos occurs in cross-fibre form similar to that in this country, and it is claimed that the longest "Blue" fibre ever found came from this field. These long Bolivian crocidolite fibres are specially valuable for gas filters. Other inherent qualities possessed by this asbestos resulted in its classification by the American Government as an essential product of munitions in the last war. The manufacture of certain vital asbestos products during the war stressed the need for various classes of asbestos possessing secondary specialized qualities. These qualities recognized as essential in certain war categories, have proved to be just as important in this fibre as in others, in normal industrial utilization in specialized spheres.

Although asbestos production in this field is under partial or complete control of the Government, the strategic importance of the crocidolite has spurred on the development of the deposits, which has for some time resulted in a steady build-up of output from a few hundred tons annually to as much as 750 tons in 1953.

There is little reliable evidence available as to the full extent of the crocidolite deposits, for, as is uncommon in most amphibole formations, the somewhat irregular development of payable quantities of fibre makes the question

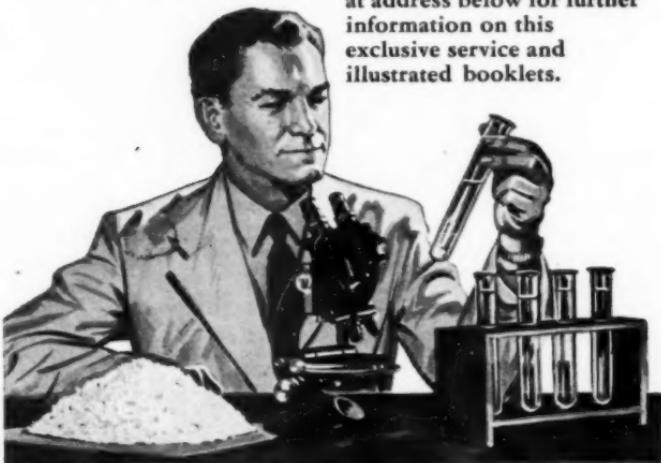
# J-M ASBESTOS Engineers

**make asbestos work harder  
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You get maximum benefit from Johns-Manville asbestos because: 1. Careful grading assures highest quality and uniformity within each classification and 2. J-M engineers, specially trained in asbestos properties, offer expert advice on grade selection and other problems encountered by asbestos users.

If you are using asbestos or considering its application in your product or process, why not consult a J-M Asbestos Engineer. Write to Johns-Manville,

at address below for further information on this exclusive service and illustrated booklets.



## **Asbestos Fibre Division**

**Canadian Johns-Manville Co., Ltd.**

**Asbestos P.Q., Canada; Telephone: Asbestos 100**

of resources a rather uncertain prediction.

Reports of the existence of "Blue" asbestos deposits are frequently circulated, especially in various parts of this Continent. The latest account concerns the development of a crocidolite-type body in New Quebec. No report of the extent of the occurrence or the quality of the fibre or any other features have yet been advised.

It is possible that in many reported cases some other amphibole of the anthophyllite variety, assumes a blueish color and in this way is taken for crocidolite.

The fact remains, however, that crocidolite producers in this country must not rest on their laurels, as being the best and biggest world producers, for apart from competition from other "Blue" fields, there is the threat of substitutes.

Some successful results have already been achieved in the synthesis of acicular forms of the amphiboles in laboratory experiments. Although it may be some time before fibrous varieties of commercial value can be produced, there is no doubt that it is merely a question of time and economics before synthetic fibres are successfully produced.

Meanwhile, other alternatives are being examined in many spheres. Fibre glass, for instance, is now being made and used as a substitute for chrysotile asbestos in textile manufacture and also in place of amosite, where the glass fibres are less than one micron in diameter. These fibres give a thermal efficiency per unit weight comparable with that of the natural amosite.

In all these manufactured substitutes, at the present time, the cost of production is a determining factor. Alternatively, a natural competitor to crocidolite is harsh chrysotile asbestos, especially in the manufacture of asbestos-cement products, due to the harshness of the fibres, making them adaptable for the wet mix in this application. Serious thought is now being given to the heat treatment of chrysotile asbestos with a view to controlling the texture of inferior fibres so that they may possess properties comparable with natural semi-harsh fibres for use in wet processes.

This really does constitute a serious threat to the

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concerning asbestos fibre or shorts?

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laboratories at East Broughton,  
Quebec, Canada, and Lockland,  
Ohio, and Carey's technical sales  
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The Philip Carey Mfg. Company,  
Lockland, Cincinnati 15, Ohio  
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monopoly now enjoyed by crocidolite fibres in the manufacture of asbestos-cement products, that is if the treated fibres can compete with the natural product in industrial usage. The advantages claimed for this substitute is first, possibly a cheaper product than selected crocidolite, and secondly, the uses of inferior classes of chrysotile asbestos, such as the hard types or the extreme soft or slimy varieties which are not favored for ordinary uses.

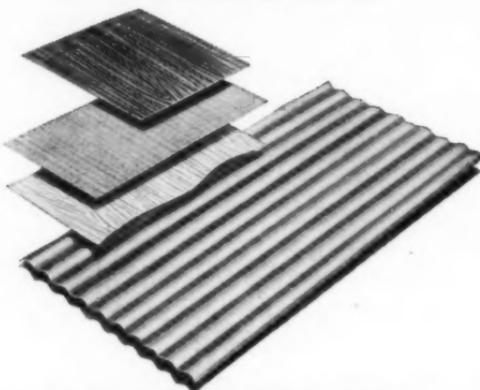
In considering this prospect it does appear reasonable to argue that the use of chrysotile in lieu of crocidolite in the asbestos-cement industry must have only a limited application because chrysotile does not possess all the natural and essential properties of crocidolite.

Crocidolite fibres besides their harshness possess the property of exceptional tensile strength. They are much stronger than chrysotile, indeed their range varies from 100,000 to 300,000 p. s. i., which makes their fibres actually stronger than steel. This is obviously a most valuable property in the manufacture of high-pressure asbestos-cement pipes, for instance. This factor at present overrides most others because of the enormous consumption of steel in industry today. High-pressure asbestos-cement pipes, besides replacing iron and steel tubing, possess added advantages. It is not subject to corrosion electrolysis or the injurious effects of sea water, and also, because of its natural property of extreme resistance to acids and alkalies, it is absolutely indispensable for conveying acid chemical solutions, brine or injurious gases. In fact the quality of the crocidolite in the pipes entirely eliminates the effects of corrosion or other deterioration.

In competition with any of the suggested substitutes in the manufacture of various other asbestos products, it is interesting to point out that the fibre diameter of crocidolite asbestos is 20 to 40 times smaller than fibres such as nylon or glass fibres, etc., and of course, by comparison with the average length of all other asbestos fibres it is generally superior (except in the case of amosite) and because of this and its relative harshness with flexibility, it possesses a natural resiliency that prevents packing and settling which, with high bulking, present valuable attributes in insulation.

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## ASBESTOS-CEMENT PRODUCTS



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**ROOFING SHINGLES**

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**PLIABOARD**  
**PERMABOARD**

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**CORRUGATED ROOFING**  
**AND SIDING**

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The chemical composition of crocidolite enables the fibres to stand high temperatures although it is easily fused at lower temperatures than other varieties. This is another example of the effective use of crocidolite in the sphere of insulation, a function, incidentally that is increased in the matter of thermal conductivity.

Quite apart from its many advantages in the manufacture of all asbestos products crocidolite, like most other asbestos varieties, is sensitive to change outside its own orbit because it is largely used as a supplementary part in the making of other products in many specialized fields too numerous to mention here. This is but an indication to account for the increasing attention being shown in "Blue".

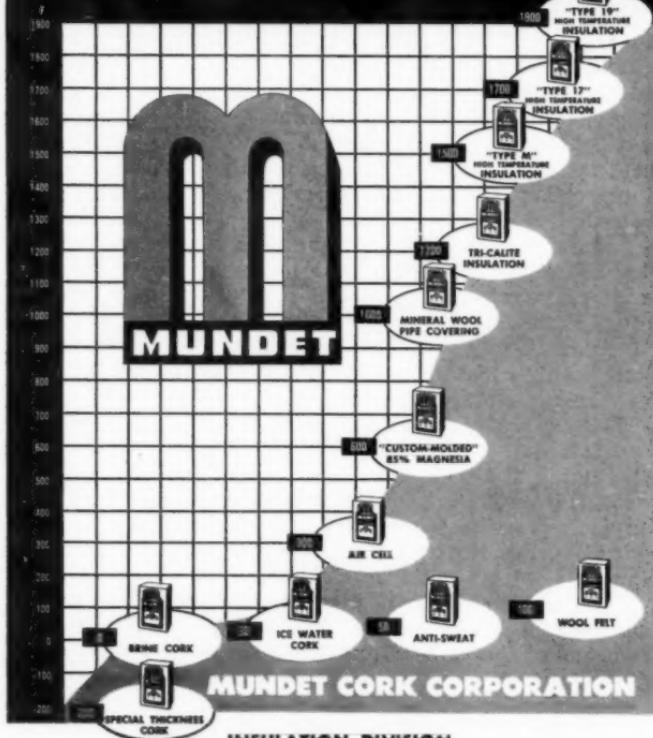
To satisfy manufacturers and to maintain a stable market position it is obviously important that producers continue to devote every effort to the production of clean graded fibre of standard quality. In this respect it is generally recognized that in grading fibre there may be two points of view, the producer's and the consumer's, depending on the latter's special requirements and the producer's fibre resources.

(Reprinted from The South African Mining and Engineering Journal, May 11, 1956.)

## BAUER PROCESSING EQUIPMENT

Four-page Bulletin No. 56 of The Bauer Bros. Co., 1826 Sheridan Ave., Springfield, Ohio, illustrates and describes four classes of processing equipment: — 1. Chip digesters, stock refiners, and Centri-Cleaners for pulp, paper, and board mills; 2. Attrition mills, hammer mills, breakers, crushers, and magnetic separators for feed mills and other industries; 3. Hullers, linters, separators, cleaners, beaters, and defibrators for the oil milling and asbestos industries; 4. Roaster, cooling car and table, grinder and texturizer, blanchers, cleaners and classifiers for the nut, candy, and food industries. The company will be glad to send a copy of the bulletin upon request. (see their advertisement on page 51).

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## J-M TO BUILD TRANSITE PIPE PLANT IN TEXAS

Construction will be started soon on another new Transite asbestos-cement pipe plant to be located at Denison, Texas, according to a recent announcement by A.R. Fisher, President of Johns-Manville Corporation.

The Denison plant is part of an approximate \$40 million Transite pipe expansion program initiated this year. Ground has already been broken for a large plant in Stockton, California and additional pipe production facilities have been or are being installed at J-M plants in Marrero, La.; Waukegan, Ill.; Watson, California; and Manville, N.J.

The Denison plant will be J-M's seventh Transite Pipe Plant. In addition to the locations above, the company produces asbestos-cement pipe products at its Toronto, Canada, location.

About 270 people will be employed at the Denison plant with an annual payroll of over \$1,200,000. Production, curing, storage and shipping facilities will cover 350,000 square feet located on a 400-acre tract of land near Denison.

During the past five years Johns-Manville sales of Transite pipe products had more than doubled and company sales forecasts indicated a need for the building soon of even more production facilities to meet future demand.

The Denison operation will be Johns-Manville's second plant in Texas and will enable them to better meet the needs of the rapidly expanding markets in the states of Texas, Oklahoma, New Mexico and Arkansas. The building products plant at Fort Worth, Texas, acquired in 1952, has clearly demonstrated the value of having production facilities in this area.

---

A new office and warehouse structure to serve as a distribution center for all Monsanto Chemical Company of Los Angeles, Calif., marketing activities in the Southern California area was occupied in August of this year.



**HAIR FELT**  
**FOR**  
**Low Temperature**  
**Insulation**

---

**Newark Hair Felt Co.**  
**1000 Maple Avenue**  
**Lansdale, Penna.**

## ACOUSTICAL FORMBOARD

Acoustical Formboard with a Full Random sound conditioning interior surface has recently been announced by the Armstrong Cork Company of Lancaster, Penna. Designed for use with lightweight, poured-in-place roof decks, the new product is composed of a  $\frac{1}{2}$ " layer of Armstrong Cushiontone acoustical material.

The random perforation pattern gives the material a noise reduction coefficient of .55, and adds a decorative note to the ceiling. The factory-primed interior surface, which has a light reflection coefficient of .78, usually needs no further finishing, but may be painted, if desired without affecting the acoustical efficiency of the material.

The inch-thick formboard has a certified C value of .36 Btu at 75°F. mean temperature. Furnished with a tongue and groove joint on the short sides, it requires no splines or cross tees. The narrow bevel at the joint gives the finished ceiling a monolithic appearance.

Armstrong Formboard is available in 24"x48" size, 1" thick.

---

The revised edition of a fire safety standard establishing definitions of types of building construction, NFPA No. 220, "Standard Types of Building Construction", has just been published by the National Fire Protection Association.

The purpose of the standard is to serve as a guide to other NFPA committees and others who may wish to specify structural requirements without detailing specific assemblies of materials.

NFPA Standard N. 220 is available in pamphlet form from the NFPA, 60 Batterymarch St., Boston, Mass., at 25c per copy. It will also be included in the 1956 edition of the National Fire Codes, to be published this month (September).

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## FLINTKOTE TO BUILD MID-WEST PLANT

The Flintkote Company, which acquired the Insulrock business in February this year, announced that it will construct a third Insulrock producing plant near Chicago to serve the Mid-Western area and to meet the "steadily increasing demands" for the building slab product.

The new plant, scheduled to increase production of Insulrock by more than 50 per cent, will be located in North Judson, Ind., some 80 miles southeast of Chicago and 65 miles southeast of Flintkote's big Chicago Heights plant. It is expected that the new plant will cost substantially more than \$1,000,000 and will be completed in nine months.

The move to build the new plant reflects the "increased production necessary to meet steadily increasing demands for Insulrock by schools, shopping centers, and other industrial and commercial construction." The location will also enable Flintkote to better serve the rapidly growing Chicago area and Midwest states.

The New plant, which will be situated on a 30-acre site, will feature the most efficient equipment designed specifically for the production of Insulrock. The site is immediately adjacent to tracks of the New York Central Railroad, and both the Erie and Chesapeake & Ohio are also close by.

"Insulrock" is a unique acoustical, insulating, fire-proof, decorative building material that was first developed in 1946. It is used for combination roof decks and ceilings, floor slabs, structural insulation, interior sheathing, stucco base, interior plaster base and as an acoustical material. It is also well suited for non-bearing, sound-deadening partitions in commercial, institutional, industrial and residential buildings.

The new North Judson plant will have a producing capacity slightly in excess of each of the present plants which are located in Linden, N.J., and Richmond, Va.



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**ASBESTOS**  
Mine  
Lowell, Vermont

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500 Fifth Avenue, New York 36, N.Y.

The **RUBEROID** Co.

**ASPHALT AND ASBESTOS BUILDING MATERIALS**

## BIRD & SON IMPROVES DESIGN & COLOR OF ITS MANORSTONE INSULATING SIDING

A dramatic change and engineering improvement in the production of Bird & Son's Manorstone Insulating Siding has resulted in a product which creates a more realistic stone-like appearance.

The important development consists of a fresher, brighter design which improves the brilliance of the overall color effect, covering all of the embossed areas with complementary colored granules and which modifies the scoring lines. This highlights the three-dimensional effect of the design.

The fresh new approach to the design of new Manorstone is in keeping with Bird & Son's national roofing and siding promotion on color, in attempting to make the consumer aware of the fact that it is easy for every homeowner to "Exterior Decorate" his home—with the accent on roof and siding colors.

In keeping with this central theme, and after careful consumer appeal studies, Bird engineers have developed new, exciting colors for Manorstone: Norfolk Green, Arizona Tan, Canyon Gold, Marble White and Sea Isle Blue.

Bird feels that buyers will now find double appeal in the lasting beauty of new Manorstone in that it gives even more of the quality appearance and natural color of real, hand-hewn stone.

---

SYMPOSIUM — "HOW CONSULTANTS' KNOW-HOW APPLIES TO PACKAGING OF CONSUMER GOODS"—will be held on the date of the Annual Meeting of The Association of Consulting Chemists & Chemical Engineers, Inc., Tuesday, October 23, 1956, 5:45 P.M., at the Belmont Plaza Hotel, Baroque Room, 49th Street and Lexington Ave., New York City. Price per person \$10.00. Letterhead Reservations with Remittance must be received not later than October 18th, addressed ACC & CE INC., Room 82, 50 East 41st St., New York 17.

# **DRYCOR FELT CO.**

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U. S. A.**

***Pioneers  
and  
World's Largest  
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NEEDLED FELTS  
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***ASBESTOS CEMENT  
PRODUCTS***

***ESTABLISHED STANDARD  
for  
ECONOMY  
DRAINAGE  
LONGER LIFE***

***Synthetic Fibre Content Available to  
Meet Your Individual Requirement***

## SAFETY FILMS

The 1956 NATIONAL DIRECTORY of Safety Films is now available from the National Safety Council.

The directory provides a compact source of information on films on safety, first aid, fire prevention and civil defense. It describes more than 1,200 films that are available without restriction on distribution. Information includes millimeter, running time, color, year of production and a brief summary of the plot.

Each film is available for purchase, rental, loan or long-term lease from one or more of 292 distributors. The directory includes a separate listing for those organizations which limit distribution to specific areas in the United States and Canada. These distributors usually make films available for loan or low-cost rental and are excellent sources for public safety films.

A single copy of the National Directory of Safety Films may be purchased for \$1 from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

## ASBESTOS-CEMENT MACHINERY

**Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.**

**Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.**

Your inquiries are most welcome.

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**Anti Freeze**

**Sponge Felt**

**Multi Ply**

**Established 1920**

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# MARKET CONDITIONS

## GENERAL BUSINESS.

General Market conditions continue good in most lines. The steel industry is operating at about 95% of capacity and should continue to produce at a high rate for the balance of the year.

Political conventions have held the spotlight for the past few weeks and now that both major parties have selected their candidates we may expect active campaigning to start shortly. This may well produce day to day effects on such markets as the stock exchange and commodity markets up to election day, but it will remain for the election itself to determine whether business will continue to have the confidence in government which has existed during the past four years.

Further tightening of credit has recently occurred and this may account to some extent for the current weakness of common stocks. In general however, business prospects are still good for most industries.

## ASBESTOS — MANUFACTURED GOODS

*Asbestos Textiles.* There have been many things to aid confusion and addle the buyer in recent weeks, which are now cleared. Example, steel strike, low auto production, copper market dropping, etc. With these and other things clearing, there has been a better settling down feeling on the part of industry and getting back to a more confident position. While the pick up has not been all we would like to have, it no doubt will reflect itself much more as we go along and the fourth quarter should be much better than the third. With all types of asbestos, and especially the better grades now in plentiful supply, it will enable all manufacturers to more adequately serve the industry with better Asbestos Textile products.

*Asbestos Brake Lining.* Replacement sales are excellent and jobber inventories are at good but not too high a level. The remainder of the year looks good and is expected to be about 20% ahead of '55 which was top year on record. Original equipment sales are still off due to

# CANADIAN ASBESTOS



THE NICOLET ASBESTOS MINE  
Norbestos (via Warwick)  
Ques.

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**NICOLET INDUSTRIES, INC.**  
**ASBESTOS FIBRE DIVISION**  
**70 Pine Street**  
**New York 5, New York**

curtailed production.

*Asbestos Paper.* Orders for this material at present are slower than at any other period during the year. The volume for this year is expected to equal that of last year. The demand for *Millboard* continues at an even pace. The industry has more than adequate capacity thus insuring competition for the available business. The overall volume for the balance of the year should be somewhat less than last year. Some nice orders are being received for *Saturated Paper* but production is still ahead of demand although shipments are slightly ahead of same period last year.

*Insulation. High Pressure.* At present the market is very strong and demand is remaining ahead of same period last year. There is a large volume of work in the design stage and volume should increase.

*Insulation. Low Pressure.* There has been no marked change in the situation since last month. Ready availability of low pressure insulations due to the large manufacturing capacity of the industry makes keen competition.

*Asbestos Cement Products.* This market is seasonally slow and the year is expected to end about 10% less than last year.

Order placements for roofing and siding for August were slightly better than for same period last year.

Order bookings are spotty with less demand being experienced in the West Coast area than in the Middle West and in the East. This is a reverse situation to that which was experienced this time last year. To some degree late housing starts in the West Coast area account for this situation; however, it is not anticipated that that particular part of the country will produce the volume of pipe business that was enjoyed last year as many real estate developments have been curtailed due to lack of demand for housing. The outlook is good for the remainder of the year with possibilities of all factories having some inventories by the end of December, indicating that demand is expected to be slightly below production.

The above comments have been made by various executives in the Industry. All comments are welcome.

# FLINTKOTE MINES LIMITED



*View of site at Thetford Mines, Quebec*



*Modern, self-propelled drilling equipment*



*Electric shovel and huge diesel truck at the Flintkote Thetford Mine*

**Flintkote...a major asbestos producer  
...now offers asbestos fibres for sale.  
Inquiries should be addressed to**

**Flintkote Mines Limited  
(subsidiary of The Flintkote Company)  
Thetford Mines, Quebec, Canada**

## BUILDING

Contract awards for future construction in the 37 eastern states in July were five percent below July of last year, according to F. W. Dodge Corporation, construction news and marketing specialists. The total of \$2,148,559,000 was the second highest ever recorded in July, however, exceeding the third highest July figure by 17 percent.

The cumulative total of awards for the first seven months of 1956 reached a record high of \$15,347,518,000 an increase of eight percent over the same period a year ago, according to Dodge Reports.

Awards of \$543,308,000 in the heavy engineering category, the highest July in Dodge history, were 29 percent greater than a year ago. In the other major construction categories, non-residential building at \$847,332,000 was five percent below July 1955, and residential building at \$757,919,000 was 21 percent below the same 1955 period.

Major construction categories set new all-time records for the first seven months cumulative totals. Individually they show: non-residential at \$5,455,014,000, up nine percent; residential at \$6,456,587,000, up one percent; and heavy engineering at \$3,435,917,000, up 22 percent.

Asbestos Exploration

Mine Development

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Consulting Geologist

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## ASBESTOS FIBRES ASBESTOS WASTE

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**WET ASBESTOS-CEMENT SHEET**

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*for manufacturing*



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**—TOUGH  
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*Inquiries for Details, Quotations and References are welcome.*

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Phone: 26 67 27

## RESEARCH BY COOPERATIVE ORGANIZATIONS

This report by Batelle Memorial Institute to the National Science Foundation forms part of the broad survey of scientific research and development in the United States which the Foundation is conducting. This report covers the technical research and development supported by-cooperative organizations including trade associations, professional and technical societies, agricultural cooperatives, and research-educational cooperatives.

This report is significant not only through the determination of the volume of research carried out by cooperative organizations, but also through pointing up the influence which such research support has upon research policies and practices, particularly in industry. These cooperative groups may be expected to continue to play an important role in furthering research in this country.

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. NSF-56-12 — Price 35e.

---

“New Johns-Manville Plastic Couplings”, is the title of an illustrated, 4-page folder which presents the time saving and money saving advantages of these couplings for Transite Ducts used in telephone conduit lines. The on-the-job photographs show installations in various sections of the country. Also shown are some of the various methods of installing and positioning Transite Conduit and Korduet which J-M Plastic Couplings make possible.

Copies of “New Johns-Manville Plastic Couplings” are available from Johns-Manville, 22 E. 40th Street, New York 16, N. Y.

<p><b>WILHELM BURGDORF</b> <b>Importer of Raw Asbestos</b> <b>P. O. Box 1131, BREMEN, GERMANY</b></p>
---

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The 44th National Safety Congress and Exposition will be held October 22-26, 1956 in Chicago, Ill.

The 1956 Congress will feature more than 800 program participants speaking at 200 sessions on all types of accident prevention — industrial, traffic, home, farm and school. In the industrial field alone, 27 complete programs will be sponsored by the industrial sections of the National Safety Council.

“Ideas for the Industrial World of Tomorrow” has been selected as the theme most descriptive of exhibits and conferences at the National Industrial Exposition to be held in Detroit’s big Artillery Armory on 8-Mile Road, October 22-26, 1956. Top executives and organizations in industry, business, finance, labor and city and state governments are the sponsors in cooperation with the U.S. Departments of Commerce and Defense.

## **ARIZONA ASBESTOS**

**Mined and Milled by**

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**Producers of Low Iron Chrysotile**

**Crudes and Filter Fibre**

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Asbestos Pipe Covering

Range Boiler Jackets

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Asbestos Cloth, Wick and Rope Packings

Asbestos Gaskets

Aluminum-Clad Asbestos Paper, Board and Aircell

Mineral Wool Insulating Cement

**SALL MOUNTAIN DIVISION**  
*Nicolet Industries, Inc.*  
**HAMILTON, OHIO**

## AUTOMOBILE SALES

	July 1956
Passenger Cars .....	440,980
Motor Trucks .....	80,836
Motor Coaches .....	307
—	522,123

In July 1955, a total of 768,621 motor vehicles were sold  
In the seven months of 1956 the total was 4,328,815.

These figures were supplied by the Automobile  
Manufacturers Association, New Center Building, Detroit,  
Michigan.

### PHILLIPS ASBESTOS MINES

Producers of  
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and

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The World's Finest Fibres

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## J-M Asbestos Tape

A combination of exceptional electrical and thermal insulating properties with high tensile strength makes Johns-Manville Asbestos Tape a highly useful and versatile product. It insulates wires, coils, cables and other electrical conductors; controls heat in small steam pipes and bends; serves as a conveyor belt for hot materials; and, with wire inserts, is used where high temperatures and abrasive conditions prevail or where greater

physical strength is required.

Johns-Manville Asbestos Oil Burner Wicking is a special type of tape made for maximum efficiency in this service. In addition to the generally used closely woven plain tapes, Johns-Manville furnishes open mesh weaves, looped edges and other styles. For more information, ask for new brochure TX-2A. Johns-Manville, Box 60, New York 16, N. Y. In Canada, Port Credit, Ont.



## Johns-Manville ASBESTOS TEXTILES

## Imports of Asbestos by United Kingdom

### Raw Material

	Tons (2240 lbs.)
	Jan. - June 1956
From: Union of South Africa .....	9,269
Basutoland, Bechuanaland & Swaziland .....	5,560
Rhodesia and Nyasaland .....	23,909
Canada .....	30,466
Other Commonwealth Countries .....	1,547
Foreign Countries .....	2,049
	—
	72,800

These figures were supplied by Reuters Economic Services, Johannesburg.

### Cyprus

(From Inspector of Mines)

	2nd Quarter (ending June 30, 1956)		
	April	May	June
'Rock Mined .....	76,092	142,369	224,426
Rock Treated .....	14,407	45,255	69,736
Fibre Produced .....	9	1,524	1,305
Fibre Exported .....		300	1,305



## TEST

... the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

**AMERICAN ROOFER and SIDING CONTRACTOR**

425 Fourth Avenue, New York City

## Complete Plants for making ASBESTOS CEMENT PIPES

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**BRANDHURST COMPANY  
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E. C. 4**

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London Central 1411  
(Private Branch Exchange)

Cables:  
Brandcolim  
London

# ASBESTOS PRODUCTION STATISTICS

## Canada

(Department of Mines, Province of Quebec)  
Tons 2000 lbs.

Production for June 1956 (Quebec) .....	75,865 tons
Other Provinces .....	3,908 tons
79,773	

Total production for June 1955 was 91,394 tons.

## Africa (Rhodesia)

(Published by Rhodesian Chamber of Commerce)  
Tons 2000 lbs.

Production for April 1956 .....	10,052.25 tons
Valued at .....	£765,629
Production for April 1955 .....	9,024.00 tons
Valued at .....	£595,605

## Australia — Statistics

(Published by Bureau of Mineral Resources)  
Tons 2240 lbs.

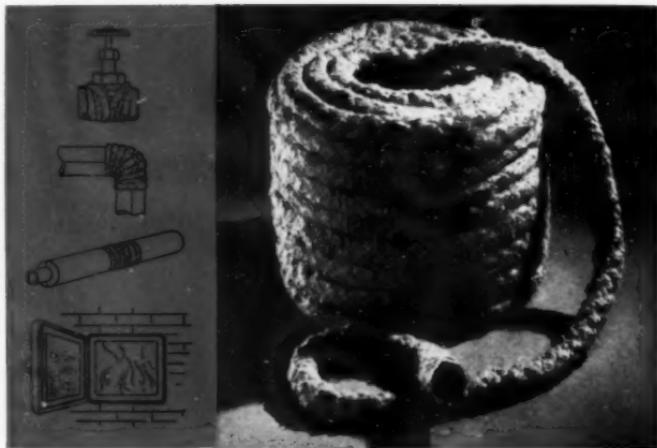
	Quarter ending Dec. 31, 1955	Year 1955
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### Production

Chrysotile .....	200 tons	864 tons
Crocidolite .....	1,275	4,487
<i>Imports</i>		
Amosite .....	4,145 tons	12,061 tons
Chrysotile .....	5,460	27,681
Crocidolite .....	5	104
Other .....	54	147
	9,664	39,993

### Exports

Chrysotile .....	1 ton	65 tons
Crocidolite .....	2,679	6,476
Other .....	.....	18
<hr/>		
	2,680	6,559



insulate better, faster, cheaper—with

### **CAPOSITE asbestos rope**

This is no ordinary asbestos rope. It is 100% virgin long-fiber high-temperature Amosite asbestos—lighter in weight, higher in insulating efficiency. Can be removed and re-applied repeatedly for service up to 750°F.—will insulate effectively up to 1200°F. Available in diameters from  $\frac{1}{2}$ " to 2" in coils of 100 lineal feet. Write for Bulletin 101 and samples.

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*In Canada*

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Subsidiaries of The Cape Asbestos Company Ltd. • London

# IMPORTS AND EXPORTS

## Imports Into U. S. A.

(Figures by Bureau of Census)

### Unmanufactured Asbestos:

From:	April 1956	Tons (2240 lbs.)
Canada .....	49,977	
Union of S. Africa .....	1,625	
Rhodesia (Ny) .....	299	
Yugoslavia .....	600	
Other Countries .....	29	
		52,530
Valued at .....		\$5,087,836
<i>By Grades:</i>		
Crude No. 1, Chrysotile .....	2	
Crude, Other, Chrysotile, Yugoslavia .....	600	
Crude, Other, Chrysotile, U. of S. Africa .....	202	
Crude, Other, Chrysotile, Rhodesia (Ny) .....	272	
Crude, Other Chrysotile, Other Countries .....	5	
Crude, Blue, U. of S. Africa .....	876	
Crude, Blue, Other Countries .....	10	
Crude, Amosite, U. of S. Africa .....	547	
Textile Fibres, Chrysotile, Canada .....	1,419	
Textile Fibres, Chrysotile, Other Crys. ....	12	
Shingle Fibres, Chrysotile, Canada .....	5,794	
Paper Fibres, Chrysotile, Canada .....	4,485	
Other Fibres, Chrysotile, Canada .....	38,279	
Other Fibres, Chrysotile, Rhodesia (Ny) .....	27	
		52,530

### Manufactured Asbestos Goods:

	April 1956	Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom .....	66,793	\$ 51,627	
Other Countries .....	3,302		5,039
Asbestos Packing & Lining .....	4,830		3,643
Asbestos Shingles (Not Impreg.) .....			
Canada .....	1,072,751		101,852
Italy .....	1,414,985		56,398
Other Countries .....	183,054		9,648
Asbestos Manufactures—Others .....			6,508
	2,745,715		\$234,715

# CENTRAL ASBESTOS CO. LTD.

ABBEY WORKS

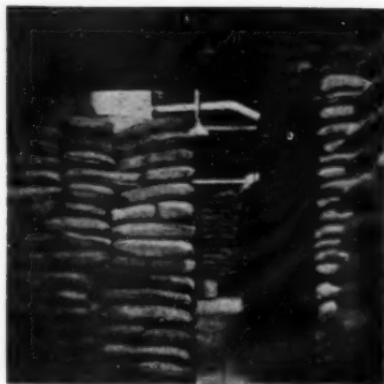
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## CAPE BLUE ASBESTOS

- HIGH TENSILE STRENGTH
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OR FROM BUFFER STOCKS IN LONDON

We process to customers' requirements all types of Asbestos  
ENQUIRIES WELCOMED FOR

CAPE BLUE TRANSVAAL BLUE • AMOSITE • CHRYSOTILE ETC.

## Exports from Canada

(Published by Dominion Bureau of Statistics)  
*Unmanufactured Asbestos:*

		May 1956
	Tons (2000 lbs.)	Value
<i>Crude</i>		
United States .....	17	\$ 14,060
United Kingdom .....	...	...
South America .....	...	...
Central America & Mexico .....	...	...
European Countries .....	21	18,418
Other Countries .....	6	5,210
	<hr/>	<hr/>
	44	\$ 37,688
<i>Milled</i>		
United States .....	15,570	\$ 2,757,009
United Kingdom .....	7,581	1,582,348
South America .....	2,746	497,423
Central America & Mexico .....	650	107,657
European Countries .....	14,090	2,642,790
Other Countries .....	8,956	1,136,645
	<hr/>	<hr/>
	49,593	\$ 8,823,782
<i>Shorts</i>		
United States .....	40,578	\$ 2,019,206
United Kingdom .....	5,055	275,377
South America .....	480	36,294
Central America & Mexico .....	192	12,022
European Countries .....	8,043	526,442
Other Countries .....	2,169	175,862
	<hr/>	<hr/>
	56,517	\$ 3,045,203
<i>Grand Total — Unmanufactured</i>		
Asbestos .....	106,154	\$ 11,906,763
<i>Manufactured Asbestos Goods:</i>		
Brake Lining .....		\$ 65,582
Packing .....		...
Other Materials .....		260,771
	<hr/>	<hr/>
	\$326,353	

ITALIAN  
 EXTRA LONG ASBESTOS FIBRE  
 YARN — CLOTH — TAPE

ROBERT P. GOEDERT, 60 Hudson St., New York, N. Y.

**BELL ASBESTOS MINES LTD.**  
**THETFORD MINES, QUE.**  
**CANADA**



*Producers of*  
***Raw Asbestos Crudes***  
***& Fibres***



*Sales Representatives*

*for*

**Cassiar Asbestos Corporation Limited**

## Imports into U.S.A.

(Figures by Bureau of Census)

### Unmanufactured Asbestos:

	May 1956
	Tons (2240 lbs.)
From: Canada .....	48,022
Rhodesia (Ny) .....	3,016
Union of S. Africa .....	2,272
Australia .....	268
Mozambique .....	201
Other Countries .....	68
	<hr/>
	53,847
Valued at .....	\$4,817,118
 <i>By Grades:</i>	
Crude No. 1, Chrysotile, Canada .....	9
Crude No. 1, Chrysotile, Rhodesia (Ny) .....	27
Crude, Other, Chrysotile, Mozambique .....	201
Crude, Other, Chrysotile, Rhodesia (Ny) .....	2,989
Crude, Other, Chrysotile, Other Countries .....	12
Crude, Blue, Australia .....	268
Crude, Blue, Union of S. Africa .....	1,324
Crude, Amosite, U. of S. Africa .....	948
Textile Fibres, Chrysotile, Canada .....	1,565
Textile Fibres, Chrysotile, Other Cty's .....	18
Shingle Fibres, Chrysotile, Canada .....	6,810
Paper Fibres, Chrysotile, Canada .....	4,624
Paper Fibres, Chrysotile, Other Countries .....	9
Other Fibres, Chrysotile, Canada .....	35,014
	<hr/>
	53,847

### Manufactured Asbestos Goods:

	May 1956	
	Quantity (lbs.)	
Asbestos Yarn, Canada .....	39,825	\$ 31,822
Other Countries .....	5,017	7,921
Asbestos Packing & Lining .....	9,372	3,374
Asbestos Shingles (Not Impreg.)		
Canada .....	2,278,347	224,858
Italy .....	2,793,531	105,817
Other Countries .....	171,008	11,707
Asbestos Shingles (Impreg.) .....	2,240	266
Asbestos Manufactures — Others .....	.....	3,805
	<hr/>	<hr/>
	5,299,340	\$389,570

IF YOU MAKE

*Asbestos  
Cement Pipes*

YOU MUST USE

**HARDMAN'S**  
*All-Nylon*  
**TOP FELTS**

AND OBTAIN DOUBLE THE LIFE



**THOMAS HARDMAN & SONS LTD.**

Fernhill Mills, BURY,  
LANCASHIRE, ENGLAND

CABLES: FELTS, BURY.

## NEWS OF THE INDUSTRY

---

### HAPPY BIRTHDAY

Brayton H. Slade, Treasurer, Thermoid Co., Trenton, N. J.  
September 8.

Charles Robert Neal, President, Metate Asbestos Corporation,  
Globe, Arizona, September 18.

W. N. Bolster, President & Treasurer, General Insulation Co.,  
Cambridge, Mass., September 20.

W. C. Dodge, Jr., Advertising Manager, Keasbey & Mattison  
Co., Ambler, Pa., September 21.

J. C. Rector, Sales Manager, Insulation Division, The Philip  
Carey Mfg. Co., Cincinnati, Ohio, September 24.

Win Brown, Vice President, MacArthur Co., St. Paul, Minn.,  
September 25.

C. Stanley Morgan, Detroit, Michigan, September 25.

W. S. Jeffrey, General Manager, Australian Asbestos Pty. Ltd.,  
Marrickville, Australia, September 26.

E. R. Teubner, Jr., President & Treasurer, Philadelphia Asbes-  
tos Co., Philadelphia, Pa., Setember 26.

O. H. Cilley, Vice President, U. S. Asbestos Division, Raybestos-  
Manhattan, Inc., Manheim, Pa., September 21.

Harold R. Berlin, Vice President, Johns-Manville Sales Corpora-  
tion, New York City, September 28.

W. H. Fehrs, Vice President & Secretary, Union Asbestos &  
Rubber Co., Cicero, Ill., September 28.

J. M. High, Sales Manager, Insulation Division, Mundet Cork  
Corporation, North Bergen, N. J., September 28.

William B. Brown, Partner, The Insulation Company, Hartford,  
Conn., September 29.

Walter L. Odenkirk, Treasurer, Asbestos and Magnesia Ma-  
terials, Chicago, Ill., September 30.

Frank L. Sowka, Treasurer, Standard Asbestos Mfg. Company,  
Chicago, Ill., October 1.

George Courtauld, Director, The Cape Asbestos Co. Ltd., London,  
England, October 2.

W. W. Dunkin, Treasurer, Southern Friction Materials Co.,  
Charlotte, N. C., October 5.

C. L. Moorman, Vice President, Union Asbestos and Rubber  
Co., Chicago, Ill., October 6.

Harry V. Everham, Represents Asbestos Manufacturers, Brook-  
line, Mass., October 8.

Russell E. Crawford, Secretary, Ehret Magnesia Mfg. Company,  
Valley Forge, Pa., October 9.



**C.J. PETROW & CO. (PTY) LTD.**

ASBESTOS

VOLKSKAS BUILDING 76 MARKET STREET  
JOHANNESBURG, SOUTH AFRICA

SOUTH AFRICAN  
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**ASBESTOS FIBRES**

All Grades - All Types

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Cable: SOTSEBSA

# ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.



Write: Asbeston® Dept., Textile Division  
**UNITED STATES RUBBER COMPANY**  
1230 Avenue of the Americas, New York 20, N.Y.



John H. Victor, Chairman of Board, Victor Mfg. & Gasket Co., Chicago, Ill., October 9.

A. L. Penhale, President and Managing Director, Asbestos Corporation Ltd., Thetford Mines, Canada, October 11.

H. R. Barrett, Vice President & Controller, The Philip Carey Mfg. Co., Cincinnati, Ohio, October 13.

W. W. F. Shepherd, Chairman of Board, Keasbey & Mattison Co., Ambler, Pa., October 13.

W. M. Paxton, Sales Manager, Packing Dept., Raybestos-Manhattan, Inc., Bridgeport, Conn., October 14.

Thomas D. Stone, President, Stone Industrial Equipment Co., Springfield, Mass., October 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

#### **NEW APPOINTMENT AT THERMOID**

The appointment of *Martin H. Gurley, Jr.* as general manager of Thermod Company's textile division has recently been announced.

For the past three years Mr. Gurley has been associated with Duplan Corporation, textile manufacturers of Charlotte, N. C., as manager of the technical department. Prior to that he was a consultant on research and development matters to several New England paper, textile and chemical companies.

#### **PACIFIC INSULATION COMPANY RECEIVES HONOR ROLL AWARD**

The Pacific Insulation Company, 2333 Palm Avenue, San Mateo, California, which has insulated 20,000 homes in San Mateo County and the Bay Area, has been given an honor roll award by Johns-Manville.

The award sent to D. C. Gower, owner of the local firm, the franchised Johns-Manville dealer "in recognition of 13 years of pleasant business relationship and outstanding home improvement service."

#### **Exports from U.S.A.**

(Figures by Bureau of Census)

*Manufactured Asbestos Goods:*

	May 1956	
	Quantity	Value
Asbestos Brake Lining .....	.....	\$ 392,112
Asbestos Construction Materials Lbs. 3,107,260	.....	267,367
Asbestos Manufactures — Others .....	.....	420,843
		<hr/>
		\$1,080,322

CABLE ADDRESS METABEST

**METATE ASBESTOS CORPORATION**  
Producers of  
**ARIZONA CHRYSOTILE CRUDES**  
and  
**FILTERATION FIBRE**

*Mines & Mill:*

SAN CARLOS  
INDIAN RESERVATION  
GILA COUNTY, ARIZONA

P.O. BOX 1506  
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**INDUSTRIAL SERVICE COMPANY**  
Builders of  
**ASBESTOS CEMENT MACHINERY**

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue

E. Rutherford, N. J.

**CELLACTITE & BRITISH URALITE LIMITED  
DIRECTORS' REPORT**

The Report of the Directors of Cellatite & British Uralite Limited showed a profit (before taxation), of £56,834 for the year ending March 31, 1956. This includes the whole of the profit of the Subsidiary Company, as in previous years the full amount of the losses incurred by the Subsidiary have been charged in the Consolidated Profit & Loss Account.

The Company and its Subsidiary, The Nuralite Company Limited, spared no effort to establish the names of their products firmly in the minds of all categories of buyers and this continues to be done most successfully. The new Works at Chatham, are now busily producing Preformed Nuralite Flashings—undoubtedly one of the most important contributions to economy in industrial roofing.

**HOW AMERICAN STANDARDS ARE MADE**—This booklet describes the three ways standards become nationally-accepted and approved as American Standards. Tells who makes these American Standards and why, and who uses them.

Explains why the American Standards Association is, how it guards the democratic processes through which American Standards are developed and how it operates impartially for the manufacturer, the consumer and general public.

It's free, by writing Dept. PR, American Standards Association, 70 East 45 Street, New York 17, N. Y.

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154 Nassau Street  
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ASBESTOS**

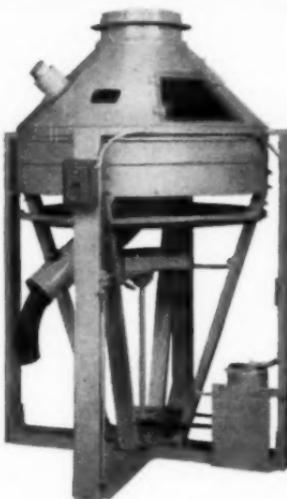
regular supplies of long Spinning Grades, Filter Grades,  
shorter Grades (comparable 3T and 3Z)

*Affiliate: A. J. Hollander (Rhod) (Pvt), Ltd.  
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*Bauer*

**Specific  
Gravity  
Separators**



Asbestos processing plants are using 150 Bauer Specific Gravity Separators for cleaning fiber. The machines are available in two sizes with 1 to 5 T/hr. capacity.

They require less air than other types of cleaners. They handle Nos. 4 to 8 fibers.

The separators remove small grit, rock particles, blasting wire, wood particles, and many other kinds of debris. Ask for particulars.

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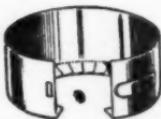
**INSULATION DISTRIBUTOR-CONTRACTORS  
NATIONAL ASSOCIATION, INC.**

IDCNA has scheduled its Fifth General Meeting for October 11 and 12, 1956, at The Claridge Hotel, Atlantic City, New Jersey. Since the inception of this National Association three years ago, its meetings have become focal points of interest to the entire insulation industry. This one promises to be the biggest and best one to date.

Over 250 contractors and manufacturers' representatives are expected to attend the two-day session. The Board of Directors will hold a meeting on October 10, and the General Meeting for everyone will begin on October 11. The program contains talks by experts on such subjects as Specifications, Credit, Labor Negotiations, Scaffolding, and The National Joint Board for the Settlement of Jurisdictional Disputes. Also, several social events are planned as well as a program for the ladies. The program has been designed to illustrate the truth in the slogan which has been adopted recently: "Membership in IDCNA doesn't Cost. It pays!"

The insulation industry has watched with pride the growth of this truly representative organization. Almost every manufacturer of insulation materials or sundries has joined as an Association Member. More and more contractors are joining as the association exhibits responsible leadership. The pioneers of this organization are to be congratulated.

Everyone interested in the activities of IDCNA is invited to the meeting in Atlantic City. Further information can be obtained from the headquarters of the association at 3420 Dent Place, N.W., Washington 7, D.C.



## **PIPE COVERING PROTECTORS**

## **The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe**

**Covering-ends. Easy to Apply . . . Prompt Shipment.**  
**THE PROTECTOR CO. • GRANT WILSON, INC.**  
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### CAPE BLUE

Kuruman Cape Blue Asbestos

*Grades: 1, 2, 3*

### TRANSVAAL BLUE

Baboon Asbestos Co.

Springbok Asbestos Co.

*Grades: TD1, TD2, TD3, TD4*

### **THE FLINTKOTE COMPANY**

#### **2nd Quarter Report**

The Flintkote Company and subsidiaries reported net income of \$1,640,574, equal after preferred dividend requirements to \$1.12 per share on the 1,377,057 common shares outstanding for the 16 weeks ended July 14, 1956. This compares with net income of \$1,790,651, or \$1.23 per share on the shares currently outstanding for the comparable period in 1955.

Net sales for the second quarter (16 weeks) period were \$32,395,050 compared with \$33,504,971 in the comparable 1955 period. (The company is on a calendar year fiscal basis, but reports on a 13 period accounting schedule.)

### **ASBESTOS MINING INDUSTRY IN CANADA — 1955**

A ten-page pamphlet under the above title has been issued recently by the Department of Trade and Commerce, Dominion of Statistics, Ottawa, Canada.

It contains various information and statistics — number of asbestos firms, number of employees, salaries and wages, shipment by grades, tonnage of rock mined and milled, fuel and electricity used, power equipment, taxes paid by the Asbestos Mining Industry, and other data of interest.

If interested write the above mentioned Department for Bulletin 6502-571-125 — price is 25c.

### **UNION ASBESTOS & RUBBER CO.**

#### **Semi-Annual Report**

The Union Asbestos & Rubber Company showed a net operating profit of \$2,182 for the first six months of 1956 compared with a loss of \$2,256 for the same period last year.

During the first half of this year, the company's Heating and Cooling Divisions, which were recently disposed of, had an operating loss of \$270,000.

Sales for the first six months of 1956 amounted to \$6,889,600, compared with \$7,044,861 for the same period last year.

### **UNITED STATES RUBBER CO.**

Latest in furniture upholstery patterns in Trilok, a new, three-dimensional fabric produced by the textile division of United States Rubber Co. was seen for the first time on August 25, at the opening of the seventh annual Homefurnishings Show at the New York Coliseum.

More than nine basic patterns of the fabric in many color variations were exhibited at the U. S. Rubber booth on the main floor during the 15-day show.

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**HIGH QUALITY**  
**FIBER GLASS**  
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#### **ADVOCATE MINES — NEWFOUNDLAND**

The latest news of the Newfoundland mining scene was the major asbestos discovery of Advocate Mines. The find was made in Advocates huge concession (1,575 square miles) on the Burlington Peninsula up north.

Drilling already has shown an estimated sixty-five thousand tons per vertical foot. Advocate says this is based on dimensions of approximately 2,500 feet in length, still open at both ends and a width of around two hundred and eighty-five feet. Officials seem highly optimistic of a sizeable operation based on this find and two others which lead them to believe that a whole new asbestos field has been uncovered. The news caused a flurry of excitement in Newfoundland mining circles.

(From Canadian Mining Journal)

#### **CURRENT RANGE OF PRICE**

As of September 10, 1956

<b>Arizona—</b>	<b>Per Ton of 2,000 lbs., f.o.b. Globe, Arizona</b>
No. 1 Crude (soft) .....	\$1,500.00 to \$1,750.00
No. 2 Crude (soft) .....	900.00 to 1,050.00
No. 3 Crude (soft) .....	400.00 to 450.00
Filter Fibre (soft) .....	250.00 to 450.00
No. 1 Crude (semi-soft) .....	1,200.00 to 1,500.00
No. 2 Crude (semi-soft) .....	900.00
No. 3 Crude (semi soft) .....	400.00
<b>Canada—</b>	<b>Per Ton 2000 lbs. f.o.b. Mine</b>
Group No. 1 (Crude No. 1) .....	\$1,400.00 to \$1,725.00
Group No. 2 Crude No. 2; Crude	
Run-of-Mine and Sundry .....	750.00 to 1,100.00
Group No. 3 (Spining Fibre) .....	350.00 to 575.00
Group No. 4 (Shingle Fibre) .....	170.00 to 225.00
Group No. 5 (Paper Fibre) .....	110.00 to 140.00
Group No. 6 (Waste, Stucco or Plaster) .....	82.00
Group No. 7 (Refuse or Shorts) .....	38.00 to 75.00
<b>Vermont—</b> Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.	
Group No. 3 (Spinning & Filtering) .....	\$ 353.00 to \$ 383.00
Group No. 4 (Shingle Fibre) .....	172.00 to 190.00
Group No. 5 (Paper Fibre) .....	114.00 to 145.00
Group No. 6 (Waste, Stucco or Plaster) .....	82.00
Group No. 7 (Refuse or Shorts) .....	39.00 to 72.00



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*Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.*

Test drivers of American Brake Shoe Company, who have driven over 2,000,000 road miles to test automotive products made by their American Brakebloc Division, were recently awarded special safety awards for having a total of 33 years driving without an accident.

The drivers, located at test centers in New Jersey and Pennsylvania, were awarded safe driving certificates and engraved pins by the Maryland Casualty Company for driving the equivalent of nearly 50 times around the world without an accident.

## ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness).

		August 1956		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	43	44 1/2	43 1/2
Amer. Br. Shoe (Pfd.)	100	107 1/2	110 1/2	107 1/2
Armst. Ck. (Com.)	1	30 1/2	34 1/2	31 1/2
Armst. Ck. (Pfd.)	np	94 1/2	97	94 1/2
Asbestos Corp. (Com.)	np	40	42	42
Carey (Com.)	10	25	26	25 1/2
Cassiar Asb. Corp.	np	\$8.65	\$9.20	\$9.10
Celotex (Com.)	1	40 1/2	42 1/2	40 1/2
Celotex (Pfd.)	20	18 1/2	19 1/2	19
Certainteed (Com.)	1	34	38 1/2	38 1/2
Ex-distribution		12 1/2	14	13
Dominion Asb. Mines	1	15 1/2c	24c	18c
Fibreboard Paper Prod.	np	35 1/2	38	36 1/2
Fibreboard Paper Prod.	100	120	121	120
Flintkote (Com.)	5	35 1/2	37 1/2	36 1/2
Flintkote (Pfd.)	np	97	99	97 1/2
Johns-Manville (Com.)	5	53 1/2	57 1/2	55 1/2
Natl. Gypsum (Com.)	1	56 1/2	59	57 1/2
Natl. Gypsum (Pfd.)	np	100 1/2	102	100 1/2
Ray-Man (Com.)	np	56 1/2	57 1/2	56 1/2
Ruberoid (Com.)	1	30 1/2	32 1/2	32 1/2
Thermoid (Com.)	1	12 1/2	12 1/2	12 1/2
Thermoid (Pfd.)	50	44	45 1/2	44 1/2
Union Asb. & Rub. (Com.)	5	6 1/2	7 1/2	7 1/2
United Asb. (Com.)	1	\$7.50	\$8.25	\$7.50
U. S. Gypsum (Com.)	4	68 1/2	76 1/2	70 1/2
U. S. Gypsum (Pfd.)	100	168	170	168
U. S. Rubber (Com.)	5	49 1/2	52 1/2	52 1/2
U. S. Rubber (Pfd.)	100	156 1/2	163 1/2	157 1/2

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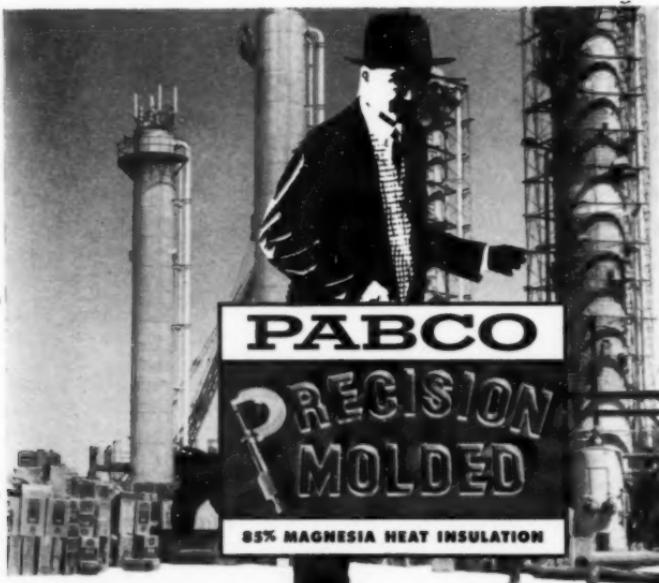
THE PHILIP CAREY MFG. CO.  
PROMOTIONS

The Board of Directors of The Philip Carey Mfg. Company recently announced two management promotions as the result of the retirement of *Stanley E. Breuleux*, Treasurer and Assistant Secretary.

*Edwin F. Ziegenhardt*, Controller, has been made Treasurer and Controller. Mr. Ziegenhardt joined Carey in 1935 as a file clerk, and progressively served as cost accountant, financial accountant and assistant controller. In November 1954, he became Controller.

*Louis A. Pechstein, Jr.* has been elected Assistant Secretary. He came to Carey as assistant to the Secretary in December 1955. He holds degrees from Princeton University and from the College of Law, University of Cincinnati. A period of general practice of law preceded his joining Carey.

**ACE ASBESTOS MANUFACTURING CO.**  
*Importers, Exporters, Processors  
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**PABCO INSULATION DIVISION** Fibreboard Paper Products Corporation,  
San Francisco 19 • New York 16 • Chicago 54 • Houston 4 •  
South Gate, Calif. • Manufacturers of Heat Insulation since 1920

## BOOK LIST

**The Asbestos Factbook**, 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.

**Asbestos Mining Methods**. By C. V. Smith. (Reprint) 16 pages 25c per copy.

**Milling Asbestos**. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

**Recovery of Raw Asbestos**. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

**Canadian Chrysotile Asbestos Classification**. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.

**Processing Asbestos Fibres**. 8 pages. (Reprint). 25c per copy

**Tests for Cotton Content**. 4 pages (Reprint). Describing several methods of testing asbestos textile for cotton content. 10c per copy.

**Chart—Dollars Cost of Uninsulated Pipe**. (Reprint), 20c each

**Brake Linings of Various Types**. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

**Twelve Estimating Tables**, with Chart. Convenient in figuring flange fittings and other areas, \$1.00 per set.

**Manual of Unit Prices**. For figuring pipe covering and blocks 90c per single copy postpaid. Discount in quantities of 6 or more, postage billed.

Order any of the above from "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.

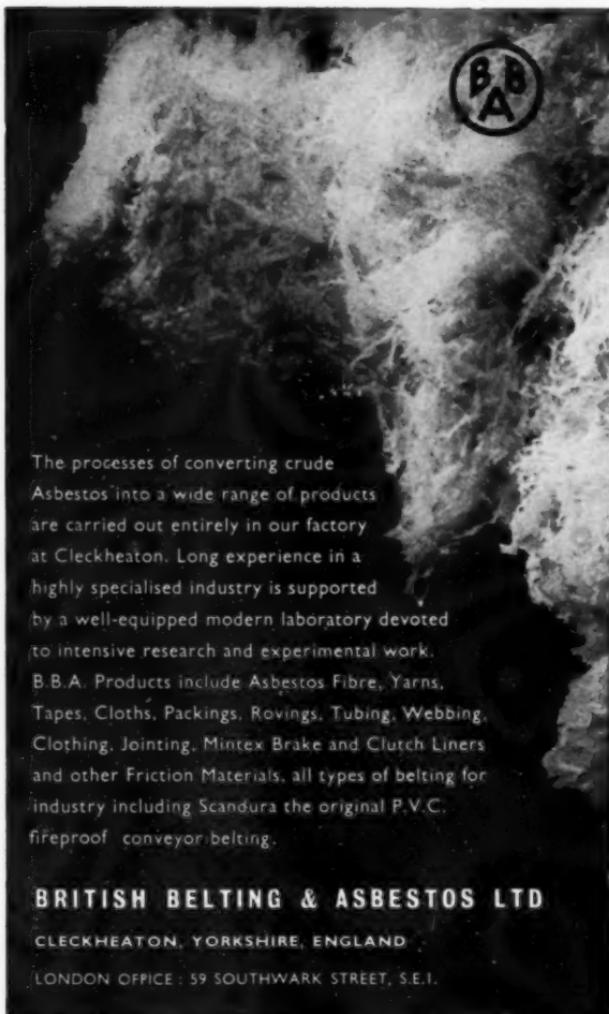
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## THE TWELVE ESTIMATING TABLES

The Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, is \$1.00 per set.

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

Standard Weight Flange Areas, Removable Type.

Figuring Hair Felt, 1", 1½", 2".

Anti-Frost Insulation.

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Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.

Brine Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

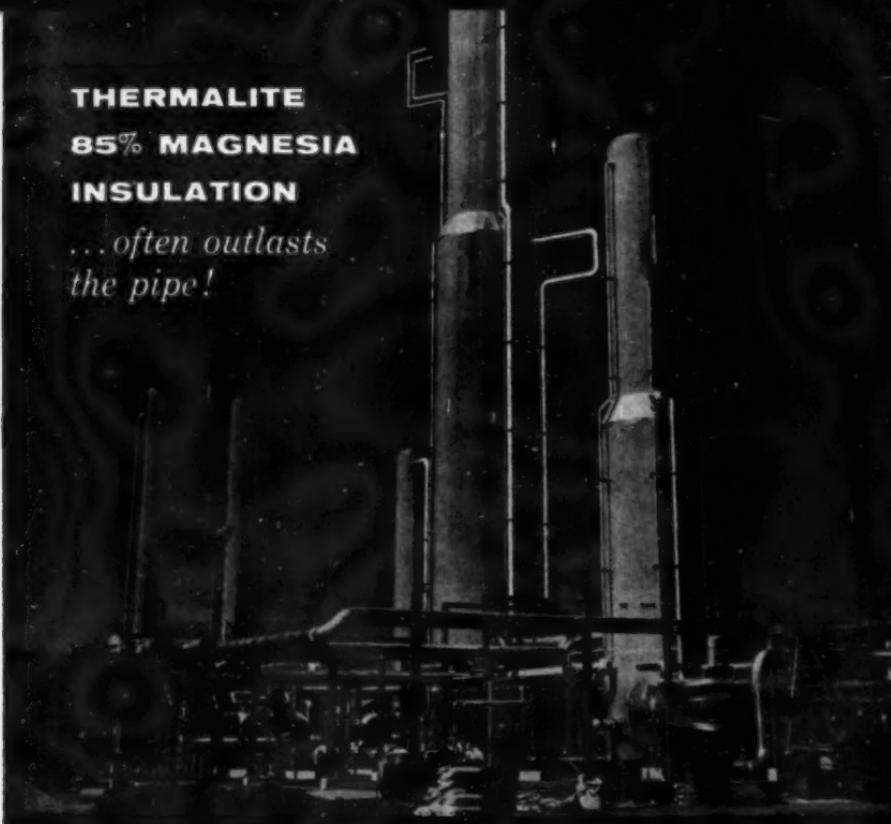
Dusts and Flue Perimeters.

The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos 807 Western Savings Fund Bldg., Philadelphia 7, Pa.

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85% MAGNESIA  
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THERMALITE 85% Magnesia frequently outlives equipment and piping. And only Ehret makes it. Moisture resistant and durable, shock resistant and structurally stable, THERMALITE makes your first cost your last. Teamed with sheet aluminum for protection against temperature extremes, sandstorms and tornadoes, THERMALITE is used throughout this Texas refinery to *keep heat balances constant*. For more information on Ehret THERMALITE, see your distributor or write for Bulletin 9C.



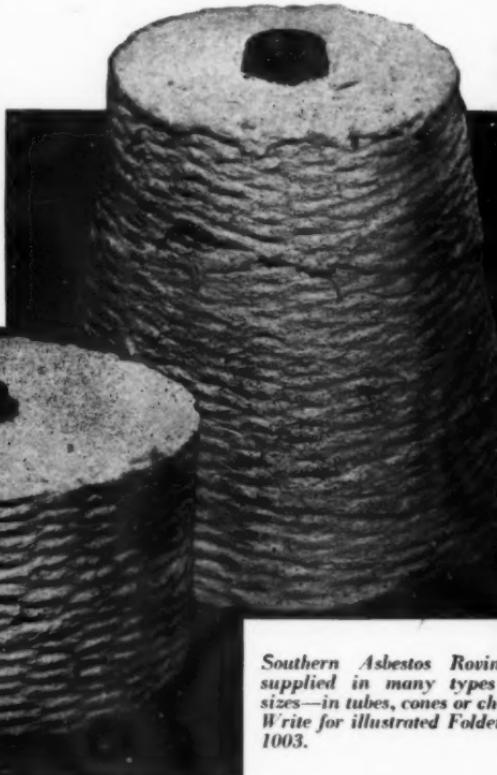
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Southern Asbestos has had over 25 years of specialized experience in developing and manufacturing Asbestos Textiles and Textile Products. Its technical and production facilities are available to solve your problems.



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